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RECENT GENERAL PURPOSE EVALUATIONS FOR THE JEFF LIBRARY

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Starting with a discussion of the requirements and goals for high quality general-purpose evaluations, the paper will describe the procedures chosen in our evaluation work for JEFF for producing new general purpose evaluations with complete covariance information for all cross sections (file 3 data). Key problems essential for the goal of making the best possible use of the existing theoretical and experimental knowledge on neutron interactions with the respective nuclide will be addressed, especially the problem of assigning covariances to calculated cross sections, necessary checking procedures for all experimental data and various possibilities to amend the experimental data base beyond the obvious use of EXFOR data for the respective cross sections. In this respect both the use of elemental cross sections in isotopic evaluations and the use of implicit cross section data (that is data which can be converted into cross sections by simple methods) will be discussed in some detail.